



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/043,438	01/10/2002	Keijo Laiho	032986-020	1334

27045 7590 01/20/2006

ERICSSON INC.
6300 LEGACY DRIVE
M/S EVR C11
PLANO, TX 75024

EXAMINER

DOAN, KIET M

ART UNIT

PAPER NUMBER

2683

DATE MAILED: 01/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/043,438	LAIHO ET AL.	
	Examiner	Art Unit	
	Kiet Doan	2683	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 November 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 25-33,38,39,47 and 48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 25-33,38,39,47 and 48 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01/10/02 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This office action is response to RCE file on 11/08/2005.

Claims 1-24, 34-37, 40-46 are cancelled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 25-33, 38-39, 47, 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vialen et al. (Pub. No. 2002/0019241) in view of Ahmavaara et al. (Patent No. 6,792,278).

Consider **claims 25, 48**, Vialen teaches a method of initiating a connection to a multi-mode mobile telecommunication device via one of a plurality of access networks, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Paragraph [0016-0019], [0023, 0028] teach mobile station having multicall paging response in core network/radio access network). Vialen teaches the limitation of claim as discuss **but fail to teach** the method comprising the step of

sending a paging message to the mobile telecommunication device from a core network the paging message specifying a preferred one of the plurality of access networks for the connection.

In an analogous art, Ahmavaara teaches "Method for establishing a signaling connection with a mobile station". Further, Ahmavaara teaches comprising the step of sending a paging message to the mobile telecommunication device from a core network the paging message specifying a preferred one of the plurality of access networks for the connection (Abstract, C3, L41-67, C4, L1-9, Fig.1, Illustrate core network which sending a paging message to the mobile telecommunication device).

Therefore, it would have been obvious at the time that the invention was made that person having ordinary skill in the art to modify Stephens and Ahmavaara system, such that multi-mode mobile telecommunication device operate on two or more radio frequencies or two or more mobile telecommunication access networks and sending a paging message to the mobile telecommunication device from a core network, to provide means for variety option/use in different telecommunication network.

Consider **claim 26**, Ahmavaara teaches the method additionally comprising the step of returning a paging response signal from the mobile telecommunication device to the core network over the preferred one of the plurality of access networks, and subsequently setting up the connection over the preferred (C5, L5-39 teach call return/paging to core network and set up new connection).

Consider **claim 27**, Ahmavaara teaches the method additionally comprising the step of returning a paging response signal from the mobile telecommunication device to the core network over a mobile telecommunication access network to which the device

Art Unit: 2683

is currently monitoring, and subsequently setting up the connection over the preferred one of the plurality of access networks (C4, L5-18, Fig.2, Illustrate response which means as step of returning a paging response signal).

Consider **claim 28**, Vialen teaches the method wherein the step of sending a paging signal to the mobile telecommunication device comprises the step of transmitting a paging signal specifying the preferred one of the plurality of access networks for the connection over each of a plurality of networks to which the device may monitor (Paragraphs [0016-0019], [0028]).

Consider **claim 29**, Ahmavaara teaches the method wherein the connection is one of a facsimile connection, data connection, or multi-media connection (C5, L40-67, C6, L1-24, teach data connection)

Consider **claim 30**, Vialen teaches the method according wherein the preferred one of the plurality of access networks for the connection is one of a GSM access network and a UMTS access network (Paragraphs [0034]).

Consider **claim 31**, Vialen teaches a paging control system for a multi-mode mobile telecommunication device, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks, the system comprising: input means for receiving

a paging message initiating a connection a first of a plurality of available access networks for the multi-mode mobile telecommunication device; and means for determining from the connection setup message whether there is a preferred mobile telecommunication access network for the connection (Paragraphs [0041-0048] teach mobile station receive paging message).

Consider **claims 32 and 47**, Ahmavaara teaches the paging control system and additionally comprising transmission means for causing the transmission of a paging message corresponding to the connection setup message over respective paging channels of two or more mobile telecommunication access networks serving the multi-mode mobile telecommunication device, the paging message containing an indication of the preferred mobile telecommunication access network for the connection (C1, L32-48, C3, L35-56 teach plurality of base transceiver station which means as transmission of a paging).

Consider **claim 33**, Ahmavaara teaches the paging control system to claim 31, wherein the system is located in a Mobile Switching Centre of a core network serving a plurality of access networks (C3, L54-58, Fig.1, Illustrate MSC and plurality of access networks).

Consider **claim 38**, Vialen teaches a multi-mode mobile telecommunication device, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Paragraph [0016-0019], [0023, 0028]) comprising the step of comprising:

means for receiving a paging message initiating a connection via one of a plurality of mobile telecommunication access networks, the paging message containing an indication of a preferred one of the mobile communication access networks for the connection (Paragraphs [0041-0048]);

means for determining the preferred mobile telecommunication access network from the paging message; and

means for transmitting a paging response signal over the preferred mobile telecommunication access network (Paragraphs [0054-59], teach transmitting paging).

Consider **claim 39**, Vialen teaches a method of setting up a connection to a multi-mode mobile telecommunication device, wherein the multi-mode telecommunication device is adapted to operate on two or more radio frequencies or two or more mobile telecommunication access networks (Paragraph [0016-0019], [0023, 0028]), the method comprising the steps of:

sending a paging request from a core network to the device via one of plurality of mobile telecommunication access networks wherein the paging request includes a preferred one of the plurality of mobile telecommunication access networks (Paragraphs [005-00055]);

receiving at the core network a paging response from the device via a telecommunication access network to whose paging channel(s) the device is currently monitoring;

determining whether the monitored telecommunication access network can support the connection (Paragraphs [0041-0043]); and

if it is determined that the access network to which the device is listening cannot support the connection, establishing a communication channel to the mobile telecommunication device over another one of the plurality of mobile telecommunication access networks that can support the connection (Paragraphs 0020-0023).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Huusko et al. (Patent No. 6,397,065).

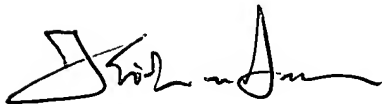
Tolson et al. (Patent No. 6,628,960).

Miyake et al. (Patent No. 5,903,618).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiet Doan whose telephone number is 703-305-4749. The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Kiet Doan
Patent Examiner



WILLIAM TROST
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600